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05104394 RUBBER COMPOSITION FOR TIRE TREAD

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ABSTRACT

PURPOSE: To obtain a rubber composition which can give a tire tread improved in grip on a wet or semiwet road surface in both low-temperature and high- temperature regions without detriment to wear resistance.

CONSTITUTION: This composition comprises 100 pts.wt. rubber component containing at least 70 pts.wt. SBR of a styrene content of 20-60%, 5-150 pts.wt. powdery inorganic compound represented by the general formula, $mM(\text{sup } 1).x\text{SiO}_y.z\text{H}(\text{sub } 2)\text{O}$ (wherein $M(\text{sup } 1)$ is at least one metal selected from among Al, Mg, Ti and Ca, oxides thereof, and hydroxide thereof; and (m), (x), (y) and (z) are integers of 1-5, 0-10, 2-5 and 0-10, respectively) and having a particle diameter of 0.01-10. μm , 5-150 pts.wt. silica having a nitrogen adsorption specific surface area of 130-280 $\text{m}(\text{sup } 2)/\text{g}$, and 5-170 pts.wt. (the total amount of the inorganic compound, the silica and this component being 80-250 pts.wt.) carbon black having a nitrogen adsorption specific surface area of 80-288 $\text{m}(\text{sup } 2)/\text{g}$ and has a content of acetone/chloroform extractibles of 30-270 pts.wt. after vulcanization.

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